



U.S. Department
of Transportation

Pipeline and
Hazardous
Materials Safety
Administration

400 Seventh Street, S.W.
Washington, D.C. 20590

SEP 30 2005

DOT-E 7721
(SIXTH REVISION)

EXPIRATION DATE: August 31, 2007

(FOR RENEWAL, SEE 49 CFR § 107.109)

1. GRANTEE: Applied Companies
Valencia, CA
2. PURPOSE AND LIMITATIONS:
 - a. This exemption authorizes the manufacture, mark, sale and use of a non-DOT specification cylinder conforming with all regulations applicable to a DOT specification 39 cylinder, except as specified herein, for the transportation in commerce of the materials authorized by this exemption. This exemption provides no relief from the Hazardous Materials Regulations (HMR) other than as specifically stated herein.
 - b. The safety analyses performed in development of this exemption only considered the hazards and risks associated with transportation in commerce.
3. REGULATORY SYSTEM AFFECTED: 49 CFR Parts 106, 107 and 171-180.
4. REGULATIONS FROM WHICH EXEMPTED: 49 CFR § 173.302a(a)(4) and § 175.3 in that a non-DOT specification cylinder is not authorized except as specified herein.
5. BASIS: This exemption is based on the application of Applied Companies dated August 30, 2005, submitted in accordance with § 107.109.

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6. HAZARDOUS MATERIALS (49 CFR § 172.101):

Proper Shipping Name/ Hazardous Material Description	Hazard Class/ Division	Identi- fication Number	Packing Group
Argon, compressed	2.2	UN1006	n/a
Helium, compressed	2.2	UN1046	n/a
Nitrogen, compressed	2.2	UN1066	n/a

7. SAFETY CONTROL MEASURES:

a. PACKAGING - Packaging prescribed is a welded or seamless, non-refillable, non-DOT specification steel cylinders (including spheres and toroids) made as described in specifications on file with the Office of Hazardous Materials Exemptions and Approvals (OHMEA) and in compliance with DOT specification 39, except as follows:

§ 178.35(b) *Inspections and analyses*

Applies except an independent inspection agency must be approved in writing by the Associate Administrator for Office of Hazardous Materials Safety.

§ 178.35(c) *Duties of inspector*

(1) and (2) * * *

(3) Add

(ix) Independent inspector must verify proper heat treatment after welding and prior to test.

(4) * * *

§ 178.65(a)(1) *Size limitation*

Maximum water capacity must not exceed 25 cu. inches and marked service pressure must not exceed 85% of the test pressure. Maximum service pressure must not exceed 6,000 psig.

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§ 178.65(b) *Materials*

The steel analysis must conform to the requirements in § 178.44(b) (steel specification for DOT 3HT).

§ 178.65(d) *Wall thickness*

The minimum wall thickness must be such that the wall stress at test pressure does not exceed either the yield strength of the material of the finished cylinder wall or 110,000 psi, whichever is greater.

* * *

§ 178.65(f) *Pressure tests*

Applies except that substitute 2.36 times for 2.0 times in paragraph (2)(i).

§ 178.65(g) *Flattening test*

(1) and (2) * * *

(3) Applies except flattening between flat plates is authorized.

(4) Cylinders or test rings must not crack when flattened so their outer surfaces are not more than ten times wall thickness apart.

(5) * * *

§ 178.65(i) *Marking*

Applies except cylinders must be marked "DOT-E 7721" instead "DOT 39".

b. OPERATIONAL CONTROLS - Cylinders must be shipped in strong outside packagings in accordance with § 173.301(a)(9). Package must be capable of withstanding a twelve foot drop onto solid concrete without damage to the pressure vessel or leakage of gas.

8. SPECIAL PROVISIONS:

a. In accordance with the provisions of Paragraph (b) of § 173.22a, persons may use the packaging authorized by this

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exemption for the transportation of the hazardous materials specified in paragraph 6, only in conformance with the terms of this exemption.

b. A person who is not a holder of this exemption, but receives a package covered by this exemption, may reoffer it for transportation provided no modifications or changes are made to the package and it is offered for transportation in conformance with this exemption and the HMR.

c. A current copy of this exemption must be maintained at each facility where the package is offered or reoffered for transportation.

d. Each packaging manufactured under the authority of this exemption must be either (1) marked with the name of the manufacturer and location (city and state) of the facility at which it is manufactured or (2) marked with a registration symbol designated by the Office of Hazardous Materials Exemptions and Approvals for a specific manufacturing facility.

e. A current copy of this exemption must be maintained at each facility where the package is manufactured under this exemption. It must be made available to a DOT representative upon request.

f. Packages specified herein marked "DOT SP 6672" prior to the issuance of this exemption may be transported under the terms of this exemption.

g. A copy of the inspector's report on the initial shipment under this exemption must be submitted to the OHMEA within 30 days after shipment.

9. MODES OF TRANSPORTATION AUTHORIZED: Motor vehicle, rail freight and cargo aircraft only.
10. MODAL REQUIREMENTS: A current copy of this exemption must be carried aboard each aircraft used to transport packages covered by this exemption. The shipper shall furnish a copy of this exemption to the air carrier before or at the time the shipment is tendered.
11. COMPLIANCE: Failure by a person to comply with any of the following may result in suspension or revocation of this exemption and penalties prescribed by the Federal hazardous materials transportation law, 49 U.S.C. 5101 et seq:

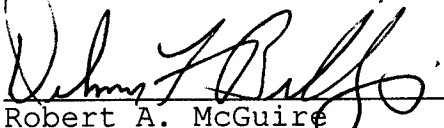
- o All terms and conditions prescribed in this exemption and the Hazardous Materials Regulations, Parts 171-180.
- o Persons operating under the terms of this exemption must comply with the security plan requirement in Subpart I of Part 172 of the HMR, when applicable.
- o Registration required by § 107.601 et seq., when applicable.

Each "Hazmat employee", as defined in § 171.8, who performs a function subject to this exemption must receive training on the requirements and conditions of this exemption in addition to the training required by §§ 172.700 through 172.704.

No person may use or apply this exemption, including display of its number, when the exemption has expired or is otherwise no longer in effect.

12. REPORTING REQUIREMENTS: Shipments or operations conducted under this exemption are subject to the Hazardous Materials Incident Reporting requirements specified in 49 CFR §§ 171.15 - Immediate notice of certain hazardous materials incidents, and 171.16 - Detailed hazardous materials incident reports. In addition, the grantee(s) of this exemption must notify the Associate Administrator for Hazardous Materials Safety -- OHMEA, in writing, of any incident involving a package, shipment or operation conducted under terms of this exemption.

Issued in Washington, D.C.

for 
Robert A. McGuire
Associate Administrator for
Hazardous Materials Safety

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DATE

Address all inquiries to: Associate Administrator for Hazardous Materials Safety, Pipeline and Hazardous Materials Safety Administration, Department of Transportation, Washington, D.C. 20590. Attention: PHH-31.

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Copies of this exemption may be obtained by accessing the Hazardous Materials Safety Homepage at <http://hazmat.dot.gov/exemptions> Photo reproductions and legible reductions of this exemption are permitted. Any alteration of this exemption is prohibited.

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